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Datasheet for ABIN7504969  
**Liver Arginase Protein (AA 1-322) (His tag)**

### Overview

Quantity:	100 µg
Target:	Liver Arginase (ARG1)
Protein Characteristics:	AA 1-322
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Liver Arginase protein is labelled with His tag.

### Product Details

Sequence:	Met1-Lys322
Characteristics:	A DNA sequence encoding the human Arginase-1 (1M-322K) was expressed with a polyhistidine tag at the N-terminus.
Purity:	>90 % as determined by reducing SDS-PAGE.

### Target Details

Target:	Liver Arginase (ARG1)
Alternative Name:	Arginase-1 ( <a href="#">ARG1 Products</a> )
Background:	Background: Arginase 1, also known as liver arginase, is a binuclear manganese metalloenzyme. It is a key enzyme of the urea cycle that catalyses the conversion of L-arginine into L-ornithine and urea, the final cytosolic reaction of urea formation in the mammalian liver. Arginase 1 is abundantly expressed in liver, but it is also expressed in cells and tissues that lack

## Target Details

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a complete urea cycle, including lung. Arginase is a critical regulator of nitric oxide synthesis and vascular function. It is implicated in a variety of human diseases including vascular disease, pulmonary disease, infectious disease, immune cell function and cancer. In humans, hereditary defects in arginase result in an accumulation of arginine in the blood known as hyperarginemia. Arginase deficiency can also result in the accumulation of nitrogen in the form of ammonia, which results in hyperammonemia.

Synonym: ARG1, AI, Arginase 1, Arginase liver,

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Molecular Weight: 36.9 kDa

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UniProt: [P05089](#)

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Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Supplied as sterile solution of 25 mM Tris-HCl+150 mM KCl+1 mM DTT+20 % glycerol, pH 8.0.

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Preservative: Dithiothreitol (DTT)

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Precaution of Use: This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

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Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

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Expiry Date: 12 months